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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/584,943	07/05/2006	Yasushi Noguchi	128634	2767
27049 OLIFF & BERI	7590 10/24/201 RIDGE, PLC	EXAMINER		
P.O. BOX 3208	350	ROYSTON, ELIZABETH		
ALEXANDRIA	A, VA 22320-4850		ART UNIT	PAPER NUMBER
			1747	
			NOTIFICATION DATE	DELIVERY MODE
			10/24/2011	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)		
10/584,943	NOGUCHI ET AL.		
Examiner	Art Unit		
ELIZABETH ROYSTON	1747		

	ELIZABETH NOTSTON	1747	
The MAILING DATE of this communication appe	ars on the cover sheet with the d	correspondence add	ress
THE REPLY FILED <u>05 October 2011</u> FAILS TO PLACE THIS A	PPLICATION IN CONDITION FOR	R ALLOWANCE.	
1. The reply was filed after a final rejection, but prior to or on application, applicant must timely file one of the following rapplication in condition for allowance; (2) a Notice of Appelor Continued Examination (RCE) in compliance with 37 Coperiods:	eplies: (1) an amendment, affidavi al (with appeal fee) in compliance	t, or other evidence, w with 37 CFR 41.31; or	hich places the (3) a Request
a) The period for reply expiresmonths from the mailing	date of the final rejection.		
b) The period for reply expires on: (1) the mailing date of this Ar no event, however, will the statutory period for reply expire la Examiner Note: If box 1 is checked, check either box (a) or (l	ter than SIX MONTHS from the mailing	g date of the final rejection	on.
MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).		
Extensions of time may be obtained under 37 CFR 1.136(a). The date of have been filed is the date for purposes of determining the period of extremely an extra transfer of the standard from: (1) the expiration date of the standard forth in (b) above, if checked. Any reply received by the Office later may reduce any earned patent term adjustment. See 37 CFR 1.704(b). NOTICE OF APPEAL	ension and the corresponding amount of the corresponding a	of the fee. The appropria nally set in the final Offic	ate extension fee e action; or (2) as
2. The Notice of Appeal was filed on A brief in comp	iance with 37 CFR 41.37 must be	filed within two month:	s of the date of
filing the Notice of Appeal (37 CFR 41.37(a)), or any exter Notice of Appeal has been filed, any reply must be filed wi	sion thereof (37 CFR 41.37(e)), to	avoid dismissal of the	
AMENDMENTS			
3. The proposed amendment(s) filed after a final rejection, be (a) They raise new issues that would require further core	nsideration and/or search (see NO		cause
(b) They raise the issue of new matter (see NOTE below	•	dualna ar almobilitika t	no legues for
(c) They are not deemed to place the application in bett appeal; and/or	er form for appear by materially rec	ducing or simplifying ti	Te issues ioi
(d) They present additional claims without canceling a c	orresponding number of finally reje	ected claims.	
NOTE: (See 37 CFR 1.116 and 41.33(a)).	, -		
4. The amendments are not in compliance with 37 CFR 1.12	1. See attached Notice of Non-Co	mpliant Amendment (PTOL-324).
 Applicant's reply has over∞me the following rejection(s): 	·		
 Newly proposed or amended claim(s) would be all non-allowable claim(s). 	·	•	_
7. For purposes of appeal, the proposed amendment(s): a) [how the new or amended claims would be rejected is prov The status of the claim(s) is (or will be) as follows: Claim(s) allowed: Claim(s) objected to: Claim(s) rejected: Claim(s) withdrawn from consideration:		l be entered and an e	xplanation of
AFFIDAVIT OR OTHER EVIDENCE			
 The affidavit or other evidence filed after a final action, but because applicant failed to provide a showing of good and was not earlier presented. See 37 CFR 1.116(e). 			
9. The affidavit or other evidence filed after the date of filing a entered because the affidavit or other evidence failed to or showing a good and sufficient reasons why it is necessary	vercome <u>all</u> rejections under appea	al and/or appellant fail:	s to provide a
10. ☐ The affidavit or other evidence is entered. An explanation REQUEST FOR RECONSIDERATION/OTHER	n of the status of the claims after en	ntry is below or attach	ed.
11. A The request for reconsideration has been considered but See Continuation Sheet.	does NOT place the application in	condition for allowan	ce because:
12. \square Note the attached Information Disclosure Statement(s). (PTO/SB/08) Paper No(s)		
13. Other:			
/Richard Crispino/	/E. R./		
Supervisory Patent Examiner, Art Unit 1747	Examiner, Art Unit 1/4/		

Continuation of 11. does NOT place the application in condition for allowance because: With regard to applicant's argument that Slykhouse fails to disclose a gas, the examiner respectfully disagrees. First, the examiner apologizes for the typo presented in the Official action dated 8/11/2011. where as applicant correctly points out the examiner typed that isobutane is a liquid above -11.7 C. The boiling point of isobutane is -11.7 C, where isobutane is a liquid below the temperature and a gas above the temperature under atmospheric conditions. Secondly, Slykhouse teaches that the spheres can be expanded before inclusion into the ceramic mixture (col. 3, line 55-56). Foamed resins include a specifically chosen volatile liquid (col. 3, line 50) that is capable of being "blown" into a gas thereby allowing the spheres to expand; "the particles being expandable to a hollow GAS-FILLED monocelluar spheres by heating" (col. 3, line 52-54). For these reasons, Slykhouse is found to teach a gas-filled spheres reading on applicant's claimed invention.

With regard to applicant's argument that Slykhouse fails to disclose an acrylonitrile content of 10-90%, the examiner respectfully disagrees. While the examiner agrees that the specific example cited by applicant teaches only a specific range of acrylonitrile outside of applicant's claimed range, Slykhouse clearly discloses a possible range for acrylonitrile in the resin shell of 10-90% (col. 3, line 26-29), teaching that concentrations of acrylonitrile overlapping with applicant's claimed range were known in the art at the time of the invention. Just because the specific example is not inclusive of applicant's claimed range does not mean that Slykhouse fails to render obvious the range claimed by applicant. Likewise, just because Slykhouse is silent with regard to the possible blowing agents outside of the one specific example does not mean that Slykhouse fails to render obvious an isobutane blowing agent for other possible resin compositions. Since Slykhouse teaches an acrylonitrile concentration of 10-90 wt% and that isobutane is a suitable blowing agent, it would have been obvious to one of ordinary skill in the art at the time of the invention to have foamed resins incorporating isobutane blowing agent with the acrylonitrile concentrations disclosed by the reference.

With regard to applicant's argument that the range disclosed by applicant is outside the range of the specific examples of Slykhouse and therefore non-obvious over Slykhouse's braoder range and teaching for the amount of acrylonitrile (10-90 wt%), the examiner respecfully disagrees. It has been held to be prima facie obviousness in the case where the claim ranges "overlap or lie inside the ranges disclosed by the prior art", or where the claim ranges and prior art ranges do not overlap but are close enough that one skilled in the art would have expected them to have the same properties. See MPEP 2144.05(I), In re Wertheim, 541 F.2d 257, 191 USPQ 90 (CCPA 1976); In re Woodruff, 919 F.2d 1575, 16 USPQ2d 1934 (Fed. Cir. 1990); In re Geisler, 116 F.3d 1465, 1469-71, 43 USPQ2d 1362, 1365-66 (Fed. Cir. 1997), and Titanium Metals Corp. of America v. Banner, 778 F.2d 775, 227 USPQ 773 (Fed. Cir. 1985).